

Title: Standard Application Procedures for Acceptance of Ground Wire Devices		
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Original Issue Date: 01/01/92	Follow-Up Review Date: 01/01/06	Revision Date: 12/31/02
Signature/Initial: Chief, Approval & Certification Center		

Standard Application Procedures for Acceptance of Ground Wire Devices

1.0 Purpose

The purpose of this Standard Application Procedure (SAP) is to explain the basic investigative process, and specify the minimum documents and requirements necessary to initiate an investigation leading to the acceptance of ground wire devices.

2.0 Scope

This SAP encompasses all applications submitted for acceptance or extension of acceptance of ground wire devices. Ground wire devices are accepted in three categories of Title 30, Code of Federal Regulations (30 CFR):

- C Surface applications include all surface circuits required to be monitored under Sections 77.803 and 77.902, regardless of the system voltage.
- C High-voltage underground includes all circuits required to be monitored under Section 75.803.
- C Face equipment includes all circuits required to be monitored under Section 75.902.

3.0 Procedure

- 3.1 All applications for acceptance of ground wire devices must include the documentation listed in Sections 3.1.1 through 3.1.4.

- 3.1.1 An acceptance application letter. (Refer to Enclosure A)

- 3.1.1.1 The company application code number, manufacturer, model, and type or category for which the acceptance is desired should be specified in the letter. The company

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application code number is any six digit or less number assigned by the applicant, that has not previously been used by the applicant to identify an application.

- 3.1.1.2 The application letter should include a list of documentation being submitted to MSHA for evaluation. The letter should be signed by the person responsible for answering questions regarding the subject application and include their phone number and e-mail address (if applicable).
- 3.1.2 One copy of each drawing, bills of material, specifications, installation instructions etc., that shows the details of the design and construction of the device. Documents previously accepted by MSHA need not be submitted, unless modified. The bills of material must specify the component parts necessary to construct one complete device. This list must specify the component, type of component (carbon composition, wirewound, electrolytic, etc.), component designation (R_1 , L_2 , T_3 , etc.), tolerance, and rating. The electrical schematic and the component layout drawing should include component designations.
- 3.1.3 A sample label of the acceptance plate that includes its method of attachment to the ground wire device. A sample label design is attached (Refer to enclosure B). Although reduction in size is permitted, the acceptance plate must include at a minimum the MSHA Logo, the company name, a description of the device and a space for the Acceptance Number (8 spaces minimum)
- 3.1.4 Three sample devices complete for installation. Two production units and one unpotted unit, if units are later potted. The devices will be returned after the evaluation is completed.

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- 3.2 Upon receipt of the application package by the Approval and Certification Center, a letter estimating the maximum anticipated fee to complete the investigation and a tentative starting date will be mailed to the applicant.
 - 3.2.1 An authorization response form will be included that indicates agreement, by the applicant, to pay expenses up to the maximum estimated fee for the investigation or requests cancellation of the application. The applicant must return this form to the Approval and Certification Center, before any further action can be taken on the application. If the authorization response is not returned within thirty days from the date of the letter, the application will be canceled.
 - 3.2.2 When unforeseen circumstances encountered during the investigation result in exceeding the estimated fee, the applicant will be contacted and given the option of either canceling the action or accepting a revised fee estimate.
- 3.3 During the investigation, applicants will be notified via telephone of any discrepancies or additional information needed to process the application. All phone calls will be followed-up with a discrepancy letter. Overseas applicants will be notified by airmail, but will not receive a telephone call. An e-mail may be sent if an e-mail address has been provided. Failure to respond to discrepancies in the time allotted will result in cancellation of the application.
- 3.4 The applicant must arrange for all testing at an appropriate laboratory. A copy of the Standard Test Procedures for Ground Wire Devices has been prepared and is available for guidance. MSHA reserves the right to witness the applicant's and/or third party testing and must be notified at least two weeks in

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advance of testing. Test results must be submitted by the applicant to MSHA with each page being signed and dated by the tester and an authorized company official who can bind the company.

3.5 The final acceptance letter will be mailed to the applicant when the investigation is completed.

3.6 An invoice for the total cost of the investigation will be sent to the applicant at a later date.

4.0 Conditions of Acceptance

The following are conditions of the acceptance:

4.1 As a part of the acceptance program, MSHA reserves the right to request an accepted ground wire device from the acceptance holder for audit at no cost to MSHA, no more frequently than once a year, except for cause.

4.2 Any accepted ground wire device covered under this program may be advertised as "accepted by MSHA@, but such terms as Arecommended@, Asanctioned@, Aapproved@, or Acertified@ by MSHA are prohibited.

4.3 Any materials, developments, test results or other information designated as proprietary and/or confidential shall be regarded as such with the exception of the manufacturer's name, address, telephone number, product name and acceptance number.

4.4 An accepted ground wire device shall be legibly and permanently marked with the assigned MSHA acceptance number affixed to the device.

4.5 An accepted ground wire device shall be marketed only under the same name and identification nomenclature that has been furnished to MSHA in the acceptance documentation.

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4.6 MSHA reserves the right to rescind for cause, any acceptance, and require its removal from use in underground or surface mines.

5.0 Review

This document will be reviewed within 3 years from the revision date.

6.0 Notification

Questions relative to these Application Procedures can be directed to Division of Electrical Safety personnel at 304-547-0400. Assistance through technical consultations is available by appointment.

7.0 Responsibility

It is the responsibility of all Electrical Safety Division personnel to ensure that ground wire device applications are processed in accordance with this SAP.

8.0 Distribution

As requested.

9.0 Authority

Title 30, Code of Federal Regulations.

ABC Company, 950 Mining Road, Pittsburgh, PA 15293



September 16, 1999

Chief, Approval and Certification Center
RR #1, Box 251, Industrial Park Road
Triadelphia, WV 26059

Gentlemen:

This is a request for a new acceptance of a Model 100, ground wire device diode assembly, Company Code No. 111989.

The following is being submitted to MSHA for evaluation:

C	Component Layout Drawing	D100-123
C	Electrical Schematic	D100-345
C	Installation Instructions	D100-678
C	A sample acceptance plate	
C	Three samples of the assembly (One sample is not potted)	

Testing of the device is scheduled at the Porter-Smith Laboratory in Pittsburgh, PA on October 30, 1999.

If there are any questions, please contact Mr. John Smith by phone at (555) 555-0001 or by e-mail at smithj@abc.com.

Sincerely,

John Smith
Design Engineer

Enclosure

(Enclosure A)

ABC COMPANY
MSHA ACCEPTED G.W.D.



Acceptance No. _____

Saturation Voltage _____

Model No. _____

HDP-000607

(Enclosure B)

CDS No.	ASAP2021	Enter Original Number
	IPSO Assigns	

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Ground Wire Devices

Document is for:		List of 30CFR References:	
X		Part	Section(s)
	External Distribution	77	803, 902
	Internal Distribution	75	902

Comments: _____

Administrative Review: Kathryn L. Baker

Authorized By: _____
A&CC Chief or Designate _____ Date _____